

TITLE OF THE INVENTION

MASS SPECTROMETRY DATA ANALYSIS TECHNIQUES

ABSTRACT OF THE DISCLOSURE

5 The present invention features mass spectrometry data analysis techniques that
can be employed to selectively identify analytes differing in abundance between different sample
sets. The employed techniques determine the statistical significance of changes to signals
associated with mass-to-charge ratios (“m/z–intensity pairs”) between individual samples and
sample sets. Based on the statistical significance, changes likely to indicate analyte level
10 differences are identified. Based on intensities of the signals, ratios of analyte abundances can be
determined.